



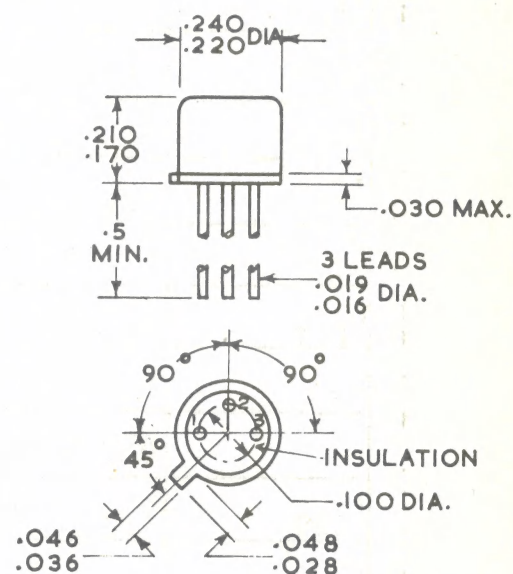
AMALGAMATED WIRELESS VALVE CO. PTY. LTD.

AS205

AS209

The AS205 and AS209 are n-p-n silicon planar epitaxial transistors for audio and general purpose use in consumer and professional equipment. The AS205 features low saturation voltage (less than 0.3 volt at 300mA). These transistors are in the TO-104 package outline, but with three leads. The collector is connected to the shell.

DIMENSIONAL OUTLINE

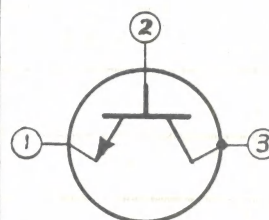


Dimensions in Inches

ABSOLUTE MAXIMUM RATINGS

Collector-base voltage	=	20 volts
Collector-emitter voltage	=	20 volts
Emitter-base voltage	=	5 volts
Emitter current	=	350mA
Base current	=	30mA

TERMINAL DIAGRAM



Lead 1-Emitter
Lead 2-Base
Lead 3-Collector Case

THERMAL RATINGS

Dissipation at case temperatures up to 75°C ----- 2W max.

Derate linearly to zero at 175°C.

Dissipation in an ambient temperature up to 25°C 500mW max.

Derate linearly to zero at 175°C.

During soldering lead temperature must not exceed 255°C for 10 secs. max. with 1/16" of can.

Storage temperature -65°C to 175°C.

CHARACTERISTICS AT 25°C

AS205

AS209

PARAMETER	CONDITIONS	MIN.	TYP.	MAX.	UNITS
I_{CBO}	$V_{CB} = 12V$			450	nA
I_{EBO}	$V_{EB} = 2.5V$			450	nA
V_{EBF}	$V_{CB} = 25V$			1	V
V_{CEO}	$I_C = 10mA$	20			V
I_B	$V_{CE} = 10V, I_E = 10mA$	33		167	μA
f_T	$V_{CE} = 10V, I_E = 10mA$		175		MHz
$C_{b'c}$	$V_{CB} = 6V, I_E = 0$		12		pF
AS205					
I_{CBO}	$V_{CB} = 25V$			100	nA
I_{EBO}	$V_{EB} = 2.5V$			100	nA
$V_{CE(sat.)}$	$I_C = 300mA, I_B = 15mA$		0.24	0.3	V
AS209					
$V_{CE(sat.)}$	$I_C = 100mA, I_B = 5mA$		0.1	0.2	V
<div> <p>With the Compliments of...</p> <p>AMALGAMATED WIRELESS VALVE CO. PTY. LTD.</p> <p>VICTORIA RD., RYDALMERE PHONE: 638-0411</p> </div>					

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